CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.14/NCM/GSB-1/GR/2016-17 Date : 09.08.2016

GRADATION FOR GSB(Coarse Graded-1)
IS : 2720 (Part - 4)

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Mr. N.C. Manjunatha,** Contractor, Bangalore.

Name of work : Improvements to cross roads and drains at Arunodaya Hospital Mallasandra opposite BBMP office in Bagalagunte Ward No.14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/369/2016-17 Dated: 06.08.2016

Date of Testing : 09.08.2016

Sample Source : Mix Plant Bangalore. **Oven Dry Wt (gm) :** 6690

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits
75	-	-	-	100	100
26.5	1990	1990	29.75	70.25	55-75
4.75	2850	4840	72.35	27.65	10-30
0.075	1400	6240	93.27	6.73	<10
PAN	450				
Total	6690				

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Remarks: Satisfies MORTH Specifications as per Table 400-2, Grading I

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3. Any Query regarding the report must be reported within 30 days from the date of testing.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

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Job No.: CTCE/BBMP/W.No.14/NCM/GSB-I/AL/2016-17

Date : 09.08.2016

ATTERBERG LIMITS TEST FOR GSB
MORTH TABLE-400-01

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Mr. N.C. Manjunatha,** Contractor, Bangalore.

Name of Work : Improvements to cross roads and drains at Arunodaya Hospital Mallasandra opposite BBMP office in Bagalagunte Ward No.14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/369/2016-17 Dated: 06.08.2016

Date of Testing : 09.08.2016

Sample Source : GSB, Mix Plant

Sl. No.	Particulars	Test Results	Standards as per Specifications
1	Liquid Limit, %	24.00	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No: CTCE/BBMP/W.No.14/NCM/BC/Bitumen/2016-17 23.08.2016

BITUMEN CONTENT AFTER GRADATION DETERMINATION OF BITUMINOUS CONCRETE MIX

As Per IS 2386 and IRC:SP:11-1984

CLIENT	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	**Mr. N.C. Manjunatha,** Contractor, Bangalore.
NAME OF THE WORK	Improvements to cross roads and drains at Arunodaya Hospital Mallasandra opposite BBMP office in Bagalagunte Ward No.14, BBMP, Bangalore.
REFERENCE	AEE/Hegga/QC/ /2016-17 Dated: 16.07.2016
SAMPLE I/D	BBMP/DZ/AEE/TDSD/PR/369/2016-17 Dated: 06.08.2016
DATE OF TESTING	23.08.2016

GRADATION AFTER EXTRACTION

Sieve Size in mm	Trail 1				Specified Limits as per MORTH specification table 500-18 (Grading-2)
	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	45.26	9.55	9.55	90.45	79-100
9.5	35.25	7.44	16.99	83.01	70-88
4.75	66.35	14.00	30.98	69.02	53-71
2.36	65.38	13.79	44.78	55.22	42-58
1.18	54.36	11.47	56.24	43.76	34-48
0.6	62.35	13.15	69.40	30.60	26-38
0.3	38.55	8.13	77.53	22.47	18-28
0.15	39.32	8.30	85.83	14.17	12-20
0.075	39.2	8.27	94.10	5.90	4-10

Sieve Size in mm	Trail 2				Specified Limits as per MORTH specification table 500-18 (Grading-2)
	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	35.26	7.45	7.45	92.55	79-100
9.5	42.25	8.93	16.39	83.61	70-88
4.75	76.36	16.14	32.53	67.47	53-71
2.36	63.32	13.39	45.92	54.08	42-58
1.18	71.22	15.06	60.97	39.03	34-48
0.6	46.35	9.80	70.77	29.23	26-38
0.3	40.25	8.51	79.28	20.72	18-28
0.15	33.65	7.11	86.40	13.60	12-20
0.075	33.32	7.04	93.44	6.56	4-10

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